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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/569,490	05/16/2008	Yoichi Kowatari	080306.57395US	3451	
23911 CROWELL &	7590 08/18/2011 MORING LLP	EXAMINER			
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300			LESLIE, MICHAEL S		
			ART UNIT	PAPER NUMBER	
			3745		
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			08/18/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)				
10/569,490	KOWATARI ET AL.				
Examiner	Art Unit				
MICHAEL LESLIE	3745				

	MICHAEL LESLIE	3745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALING DATE OF THIS COMMUNICATION.  Esteración of time may be swallable under the provisione of 37 OFT 1, 136(a). In no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication.  I IN Operator of reply is period above, the measume statutory period will apply and will expire SIX (9) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply well by statute, cause the application to become ABANDONED (35 U.S.C, § 139).  Failure to reply within the set or extended period for reply with up the communication. The communication is the communication of the communication.						
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) An election was made by the applicant in responsive for the restriction requirement and election. 3 Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  onse to a restriction requirement in have been incorporated into this are except for formal matters, pro	action. secution as to the				
Disposition of Claims						
5) Claim(s) 1-6 is/are pending in the application. 5a) Of the above claim(s) is/are withdrawn from consideration. 6) Claim(s) is/are allowed. 7) Claim(s) is/are rejected. 8) Claim(s) is/are objected to. 9) Claim(s) is/are objected to.						
Application Papers						
10) ☑ The specification is objected to by the Examiner.  11) ☑ The drawing(s) filed on 2 <i>T February 2006</i> is/lare: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(P10-413) ate				

Attachment(s)	
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) X Information Disclosure Statement(s) (PTC/SE/08)	5) Notice of Informal Patent Application
Paper No(s)/Mail Date 2/27/2006.	6) Other:

U.S. Patent and Trademark Office PTOL-326 (Rev. 03-11)

#### DETAILED ACTION

## Specification

The abstract of the disclosure is objected to because it exceeds the limit of 150 words. Correction is required. See MPEP § 608.01(b).

## Claim Objections

Claims 1 and 3 are objected to because of the following informalities: Claim 1, Line 5, "of" should be --for--; Claim 3, Line 3,"increment torque" should be --increment rate--. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "around" in claim 1, line 15 is a relative term which renders the claim indefinite. The term "around" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The pump torque that is established by the "second torque control means" is rendered indefinite.

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Claims 2-6 are rejected due to their dependence from claim 1.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujita et al (JP 2000-154803) in view of Aihara (JP 2000-161302).

Fujita et al disclose an engine lag down control system for construction machinery provided with an engine (1), a main pump (2) driven by the engine, a torque regulating means (8, 11-14) for regulating a maximum pump torque of the main pump, a hydraulic actuator (5) driven by pressure fluid delivered from the main pump, and a control device (4) for controlling the hydraulic actuator, the engine lag down control system including a first torque control means (110A) for controlling the torque regulating means to a predetermined low pump torque lower than the maximum pump torque when a non-operated state of the control device has continued beyond a predetermined monitoring time, and a second torque control means (122A) for controlling the torque regulating means to the predetermined low pump torque or to a pump torque around the predetermined low pump torque for a predetermined holding time subsequent to an operation of the control device from the non-operated state while the torque regulating means is being controlled by the first torque control means, to control small a temporary reduction in engine revolutions that occurs upon operation of the control device from the non-

operated state, characterized in that the engine lag down control system is provided with a third torque control means (140A) for controlling the torque regulating means such that from a time point of a lapse of the predetermined holding time, the pump torque of the main pump increases. Fujita et al do not explicitly teach that the pump torque of the main pump gradually increases at a predetermined torque increment rate as time goes on, wherein the third torque control means comprises a means for controlling the torque increment rate to be held constant during a change from the predetermined low pump torque to a maximum pump torque corresponding to a target number of revolutions of the engine.

Aihara teaches an engine lag down control system having a torque control means (51, 53, Figs. 5, 6) that controls the pump torque of the main pump to gradually increases at a predetermined torque increment rate as time goes on, wherein the third torque control means comprises a means for controlling the torque increment rate to be held constant during a change from the predetermined low pump torque to a maximum pump torque corresponding to a target number of revolutions of the engine.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the third torque control means of Fujita et al to control the pump torque of the main pump to gradually increases at a predetermined torque increment rate as time goes on, wherein the third torque control means comprises a means for controlling the torque increment rate to be held constant during a change from the predetermined low pump torque to a maximum pump torque corresponding to a target number of revolutions of the engine as taught by Aihara for the purpose of maximizing engine efficiency during pump operation.

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## Allowable Subject Matter

Claims 3-6 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MICHAEL LESLIE whose telephone number is (571)272-4819.

The examiner can normally be reached on M-F 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ML August 15, 2011 /Michael Leslie/ Primary Examiner, Art Unit 3745